

## FuelStop Thermostatic Fire Valve Performance and Competitor Review

	FuelStop - TFV	Teddington - KBB	Peerless	EPS Components – Remote Action Fire Valve
<b>Model</b>	3/8" x 10mm 72°C 3/8" x 10mm 95°C 1/2" 72°C 1/2" 95°C	KBB/C/65 ¼" KBB/C/90 ¼"	65°C ¼" 90°C ¼"	66°C 90°C
<b>Temperature (Tolerance)</b>	72°C (66°C to 72°C, Δ6) 95°C (86°C to 95°C, Δ9) No variation with changes in oil pressure	Oil at atmospheric Pressure 65°C (59°C to 75°C, Δ16) 90°C (84°C to 100°C, Δ16) Oil at 10psi (max pressure) 71°C (65°C to 81°C, Δ16) 95°C (89°C to 105°C, Δ16) Oil at negative pressure will result in lower trip temps (nuisance trips)	65°C (60°C to 70°C, Δ10) 90°C (85°C to 95°C, Δ10) Trip temps will increase with higher oils pressure and drop with negative oil pressure.	66°C 90°C No info on tolerance
<b>Temp notes</b>	<i>95°C version was introduced for use with Argas, as 72°C caused nuisance tripping. Also used in Combiboilers when fitted inside the casing.</i>			
<b>Flow Rate</b>	3/8" <b>180ltrs/hr at 1.2m head</b> ½" <b>360ltr/hr at 1.2m head</b>	Kerosene 56ltrs/hr at 1m head 85ltrs/hr at 2m head Diesel 50 ltrs/hr at 1m head	100ltrs/hr at 2m head	395ltrs/hr at 2m head
<b>Capillary Length Options</b>	1.5m (72°C only), 2m (95°C only), 3m, 6m, 10m, 15m, 25m 150mm sensor for 72°C 175mm sensor for 95°C	1.5m, 3m, 6m using 124mm sensor 9m, 12m, 16m, 20m using 174mm sensor	1.5m, 3m, 6m, 9m, 12m, (longer by special order)	1.5m, 3m, 6m, 9m, 15m (15m 66°C only)
<b>Medium</b>	72 – Ethyl Acetate 95 - Toluene	Nitrogen in vacuum	Argon in vacuum	
<b>Fuel Type</b>	Class C (Kerosene) Class D (Distillate grade)	Kerosene Diesel	Class C (Kerosene) Class D (Distillate grade)	C2 and D fuels to BS2869

	LPG (up to 3kW) Biofuel to EN standard 14214	LPG (up to 3kW)	LPG (up to 3kW)	
<b>Shut off Oil Pressure</b>	~5bar	~2bar	~2bar	1.5bar
<b>Approval / Standards</b>	OFTEC Conforms to OFS E101, BS 5410 Part 1 & BS 799 Part 5	OFTEC Conforms to OFS E101 & BS 5410 Part 1	OFTEC BSRIA Conforms to OFS E101 & BS 5410 Part 1	OFTEC Conforms to OFS E101, BS 5410
<b>Operation</b>	All valves have a similar operation			
<b>Features</b>	Manual reset fail-safe if broken 2 alt temperatures <b>High flow rate, therefore suitable for use with suction or gravity head fuel systems at pressures of -0.8 bar vacuum and 3 bar positive head</b>	Non electric Manual reset fail-safe if broken 2 alt temperatures	Non electric Manual reset fail-safe if broken 2 alt temperatures	High flow rate
<b>Connections</b>	3/8" - <b>Supplied with 10mm tube nuts and olives</b> 1/2" – 1/2" female BSP	1/4" BSP, internal taper	1/4" BSP, internal taper	3/8" female
<b>Claims</b>	Exceptional reliability High build quality Rigorous testing Manufactured in the UK <b>Maintain accurate trip temp at wide range of ambient temps</b> <b>Maintain accurate trip temp at wide range of oil pressure.</b> <b>Stronger construction of valve and bellows so can hold 5bar oil pressure.</b> <b>Meets BS799pt5 trip temp sepc.</b> First to introduce the manual reset	Robust design proven for 40 years. Introduced in early 1960s, under Patent until 1980s.	No info	No info

	switch, copied by Teddington in the 1990s and Peerless in 2001			
<b>Issues</b>		High return rate Flow rate may be too low for some installations (commercial, multiple or large boilers). Wide trip temp variance, trip temp will change with oil pressure & ambient temp, leading to nuisance tripping.	High return rate Flow rate may be too low for some installations (commercial, multiple or large boilers). Wide trip temp variance, trip temp will change with oil pressure & ambient temp, leading to nuisance tripping.	Wide trip temp variance, trip temp will change with oil pressure & ambient temp, leading to nuisance tripping
<b>Price</b>	½" 3m 72°C £66 (oilybits) 3/8" 3m 72°C £29 (oilybits)	KBB/C/65 3m £27+VAT (BES) KBB/C/65 12m £45+VAT (BES)	65°C 3m £19+VAT (BES) 65°C 12m £21+VAT (BES)	No info
<b>Warranty</b>	1 year	3 years	1 year	No info
<b>Installation</b>	<i>Recommended it is fitted upright as upside down it can fill with water and freeze.</i>			
<b>Notes</b>	<i>Must be fitted external of building on oil feed line (BS5410)</i>			



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